Table of Contents

President's Message .................................................. 99

ARTICLES

Characteristics of the Turbulence Processes in the Magnetohydrodynamic Environment
  Liudmyla Kozak, Bogdan Petrenko, Elena Kronberg, Elena Grigorenko & Antony Lui .................. 101

An Assessment of Biomass Supply Chain: A DEA Application
  Isotilia Costa Melo, Athanasios Rentizelas, Paulo Nocera Alves Júnior, Jessica Suárez Campoli & Daisy Aparecida do Nascimento Rebelatto 125

Highly Selective and Sensitive Dual Channel Schiff Base Chemosensors for the Detection of Al(III), Fe(III) & Cu(II)
  Santhi Sambamoorthy & Amala Subbiah ................................................................. 141

A Strategic Model for Forensic Readiness
  Jan Collie .................................................................................................................. 167

Announcements .............................................................. 183

Published by

The Natural & Formal Sciences Research Division of The Athens Institute for Education and Research
Editors of this Journal

• Dr. Nicolas Abatzoglou, Head, Environment Research Unit, ATINER & Professor, Department of Chemical & Biotechnological Engineering, University of Sherbrook, Canada, Chair Pfizer, PAT in Pharmaceutical Engineering, Director GREEN-TPV and GRTP-C & Pwelcomes.

• Dr. Christopher Janetopoulous, Head, Biology Research Unit, ATINER & Associate Professor, University of the Sciences, USA. (Biology)

• Dr. Ethel Petrou, Academic Member, ATINER & Professor and Chair, Department of Physics, Erie Community College-South, State University of New York, USA.

• Dr. Ellene Tratras Contis, Head, Chemistry Research Unit, ATINER & Professor of Chemistry, Eastern Michigan University, USA. (Chemistry)

Editorial and Reviewers’ Board

Managing Editor
Ms. Afrodete Papanikou

Offices
Athens Institute for Education and Research
8 Valaoritou Street, 10671 Athens, Greece
Phone: + 30 210 3634210 Fax + 30 210 3634209
Email: science-journal@atiner.gr
URL: https://www.athensjournals.gr/ajs
## Table of Contents

| President's Message                           | 99 |
| ARTICLES                                    |    |
| Characteristics of the Turbulence Processes in the Magnetohydrodynamic Environment | 101 |
| Liudmyla Kozak, Bogdan Petrenko, Elena Kronberg, Elena Grigorenko & Antony Lui |    |
| An Assessment of Biomass Supply Chain: A DEA Application | 125 |
| Isotilia Costa Melo, Athanasios Rentizelas, Paulo Nocera Alves Júnior, Jessica Suárez Campoli & Daisy Aparecida do Nascimento Rebelatto |    |
| Highly Selective and Sensitive Dual Channel Schiff Base Chemosensors for the Detection of Al(III), Fe(II) & Cu(II) | 141 |
| Santhi Sambamoorthy & Amala Subbiah |    |
| A Strategic Model for Forensic Readiness | 167 |
| Jan Collie |    |
| Announcements | 183 |
Theophrastus was a Greek philosopher of the Peripatetic school, and immediate successor of Aristotle in leadership of the Lyceum.
President's Message

The Athens Institute for Education and Research (ATINER) is pleased to announce the publication of a number of peer reviewed, open access journals of original research work. Most of the articles will be selected from the numerous papers that have been presented at the various annual international academic conferences organized by the different research divisions and units of the Athens Institute for Education and Research. The plethora of papers presented every year will enable the editorial board of each journal to select the best, and in so doing produce a top quality academic journal. In addition to papers presented, ATINER will encourage the independent submission of papers to be evaluated for publication.

The current issue is the second from the fifth volume of the Athens Journal of Sciences published by the Natural & Formal Sciences Research Division of the Athens Institute for Education and Research (ATINER).

The Head of the Natural & Formal Sciences Research Division is member of the Editorial Advisory Board. The Academic Members of the research unit are members of the Editorial Board and will assist the editor and the Editorial Advisory Board with the peer reviewing of all submitted papers. Currently, the academic members of the five research units consist of over 100 international experts from about 50 countries.

Gregory T. Papanikos
President
Athens Institute for Education and Research